

5. (Amended) Method according to Claim 1, characterized in that the melamine melt is cooled to a temperature which is from about 1 to 50°C above the melting point of the melamine, at an ammonia pressure of from about 50 to 1000 bar while feeding in ammonia.

6. (Amended) Method according to Claim 1, characterized in that the melamine melt is cooled to a temperature which is from about 1 to 30°C above the melting point of the melamine.

7. (Amended) Method according to Claim 1, characterized in that the melamine melt is cooled to a temperature which is from about 1 to 50°C above the melting point of the melamine, by passing in ammonia for from about 1 min to 10 h.

8. (Amended) Method according to Claim 1, characterized in that quenching is effected in stage a) at a temperature of from about 25°C to 300°C, preferably from about 50°C to 200°C and a pressure of from about 1 to 100 bar, preferably from about 1 to 50 bar.

9. (Amended) Method according to Claim 1, characterized in that quenching is effected in stage b) at a temperature of from about 200°C to 270°C and a pressure of from about 1 to 100 bar, preferably from about 1 to 50 bar and further cooling is then effected in the second step to about 50°C to 200°C.

10. (Amended) Method according to Claim 1, characterized in that melamine and urea are washed out of the off-gases of the melamine reactor by means of a urea melt which simultaneously heats up, and the urea melt is then fed to the melamine synthesis in a melamine reactor and the off-gases are fed to a urea reactor.